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ABSTRACT OF THE DISCLOSURE

An information recording apparatus (SS1) is provided with: a signal process device (72) for applying a predetermined signal process to a plurality of partial record information blocks constructing whole record information (R) to thereby generate processed partial record information blocks (Sr) each composed of a plurality of predetermined information units (IU), and for generating and outputting recording position information (Sac), which is to be recorded by each of predetermined reproduction units (VOBU) composing the information units, for respective one of the reproduction units. The recording position information indicates recording positions of the reproduction units corresponding to reproduction times of the partial record information blocks within a predetermined range before and after the respective one of the reproduction units on an axis of reproduction time of each of the partial record information blocks. The information recording apparatus is also provided with; a multiplex device (75, 76) for multiplexing the processed partial record information blocks and the recording position information by each of the reproduction units to thereby output multiplexed partial record information (Sap); and a record device (77, 78) for recording the multiplexed partial record information onto the information record medium.